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(71) Applicant (for all designated States except US): **UNISYS CORPORATION** [US/US]; Unisys Way, MS/E8-114, Blue Bell, PA 19424-0001 (US).

PA 19460 (US). **HUNTER, James, R., Jr.** [US/US]; 808 Bush Lane, Chadds Ford, PA 19317 (US).

(74) Agents: **STARR, Mark, T. et al.**; Unisys Corporation, Unisys Way, MS/E8-114, Blue Bell, PA 19424-0001 (US).

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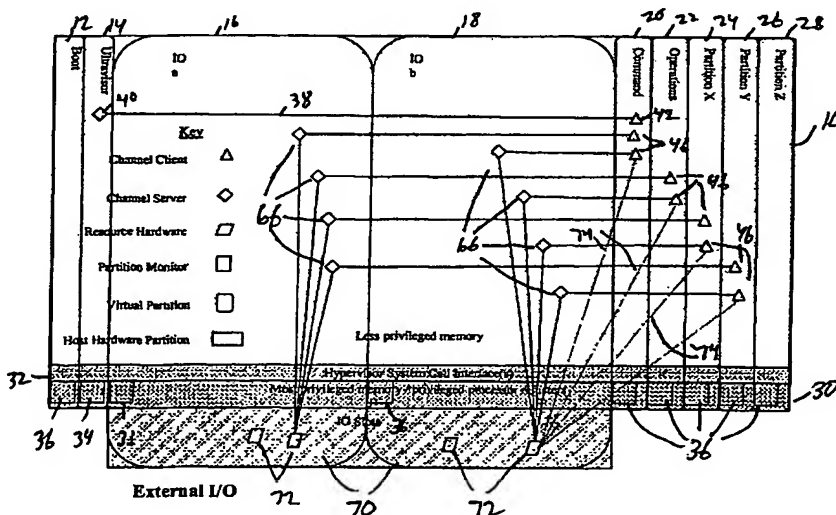
(72) Inventors; and

(75) Inventors/Applicants (for US only): **LANDIS, John, A.** [US/US]; 7124 Old Easton Road, Pipersville, PA 18947 (US). **POWDERLY, Terrence, V.** [US/US]; 10 Crown Lane, East Fallowfield, PA 19320 (US). **SUBRAHMANIAN, Rajagopalan** [IN/US]; 731 Parkview Drive, Phoenixville, PA 19460 (US). **PUTHIYAPARAMBIL, Aravindh** [IN/US]; 715 Parkview Drive, Phoenixville,

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(54) Title: **VIRTUALIZATION SYSTEM FOR GUEST**



(57) Abstract: A virtualization infrastructure that allows multiple guest partitions (24, 26, 28) to run within a host hardware partition (10). The host system is divided into distinct logical or virtual partitions (12-28) and special infrastructure partitions (12-22) are implemented to control resource management and to control physical I/O device drivers that are, in turn, used by operating systems in other distinct logical or virtual guest partitions. Host hardware resource management runs as a tracking application in a resource management "ultravisor" partition (14), while host resource management decisions are performed in a higher level command partition (20) based on policies maintained in a separate operations partition (22). Host hardware I/O management is implemented in special redundant I/O partitions (16-18). Operating systems in other logical or virtual partitions communicate with the I/O partitions via memory channels (38, 48) established by the ultravisor partition.

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